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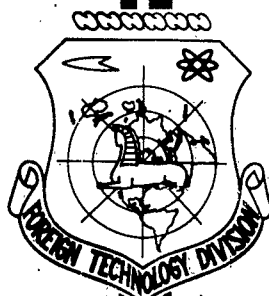
TRANSLATION

BARGES WITH TELESCOPIC
TENT COVERING

By

M. Burak

FOREIGN TECHNOLOGY DIVISION



AIR FORCE SYSTEMS COMMAND

WRIGHT-PATTERSON AIR FORCE BASE

OHIO



UNEDITED ROUGH DRAFT TRANSLATION

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BY: M. Burak

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PREPARED BY:

TRANSLATION DIVISION
FOREIGN TECHNOLOGY DIVISION
WP-AFB, OHIO.

Barges with Telescopic Tent Covering

by

M. Burak

In accordance with the plan developed at the Yenisey Steam Ship Plant, several deck barges (project 562-D), with a ¹⁸⁰_A lifting capacity of 800 tons were equipped with tent installations with movable telescopic blinds (see illustration on top).

The construction of the blinds (canopies offers the possibility of simultaneously uncovering about 50% of the space over the freight compartments and load or unload the vessel by two harbor cranes, which considerably reduces the time of standing under load and the unloading time.

The body is constructed by the mixed system of assembling and has one longitudinal (in diametral plane) and four transverse water impenetrable partitions.

When the vessel is equipped with tent arrangement with movable blinds the body of the vessel underwent no structural changes. After modifying the vessels they are used as vessels for transporting general loads.

The volume of the load section in the new arrangement is about 1600 m³, which allows to transport in them 800 tons of load with a volumetric weight of about 0.5 tons/m³. The superstructure has a length of 49 m, width of 12 m, height at the rail of 2.7 m. It consists of a metal frame, covered at the joists with a lath 16 m thick. Along the sides the superstructure has a deck with a width of up to 1.58 m made of sheet steel 3 mm in thickness.

On the superstructure deck are placed coaming units with mounted shelves. On the shelves are mounted narrow gage R/R tracks (GOST = State Standard -6368-52, type 8), on which the hatch covering shield of upper belt roll. Rails for the rolling of shields of the lower belt are mounted from the inside on the deck extension (see

drawing).

The deck of the superstructure over the frames and the empty bulkheads have half beams with angle piece 60x40x5 mm. Semi-beams, situated over the frame bulkheads are supported against two pillars - inner and outer. The pillars are made of welded construction, tubular type, from two angle pieces 60x40x5 mm; the inner pillars can be made of discarded pipes.

In the lower part of the metal frame passes a fashioning band with a dimension of 120 x 3 mm, welded on to the deck by a solid water impermeable seam.

The end transverse walls consist of upper and lower plates, connected with each other with pillars made of angle pieces 60x40x5 mm.

On the superstructure are placed 14 shields moving over rails by rollers: 7 belong to the upper belt and 7 to lower one. Each shield has four rollers.

Not to permit penetration of water through the joints of the shields, are set up water draining devices, from which the water is removed through slots cut out in the coamings.

Dimension of shields of upper belt: length 3517 mm, width 9130 mm; lower belt: length 3517 mm, width 8830 mm.

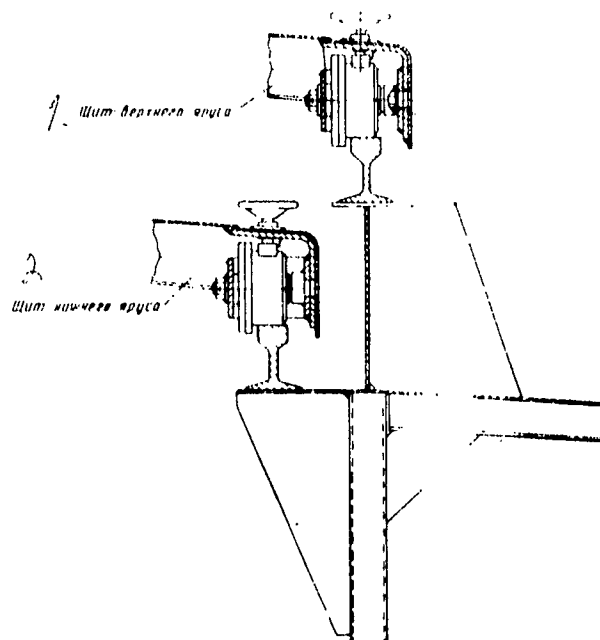
The weight of each shield does not exceed 1.1 t. To shift one shield over the rails, even in presence of a certain differential, the combined forces of two people are sufficient (one on each side)/

The cost of operations in manufacturing tents under conditions of REB of second class does not exceed 8 thousand rubles.

Operation of vessels showed their high effectiveness. A decision was adopted about further equipping deck barges with tents with telescopic (folding) covering of the described construction.



Illustration of barge.....



Drawing: 1-shield of upper belt;
2 shield of lower belt.

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